

FIG. 1



Timekeeping devices

RC oscillators
Crystal oscillators
Radio time keeping signals

Memory – items stored

Software

Information about celestial objects:

Sound recordings (e.g. spoken facts about the objects)

Alphanumeric (e.g. coordinates, object names)

Images (e.g. telescopic views of the objects)

Sensors

Accelerometers

Magnetometers

Inclinometers

Compasses

Gyroscopes

Global Positioning Receivers

Potentiometers

Cameras

Electromagnetic sensors

Sound sensors

Voltage sensors



Processing devices

Microprocessor
Computer
Personal digital assistant
Lap top computer
Personal computer
Cell phone



Input and output devices

Buttons, microphones

Alphanumeric displays

Graphics displays

Speakers

Vibrating parts



Electrical power sources

Batteries

Generators

Fuel cells



FIG. 2

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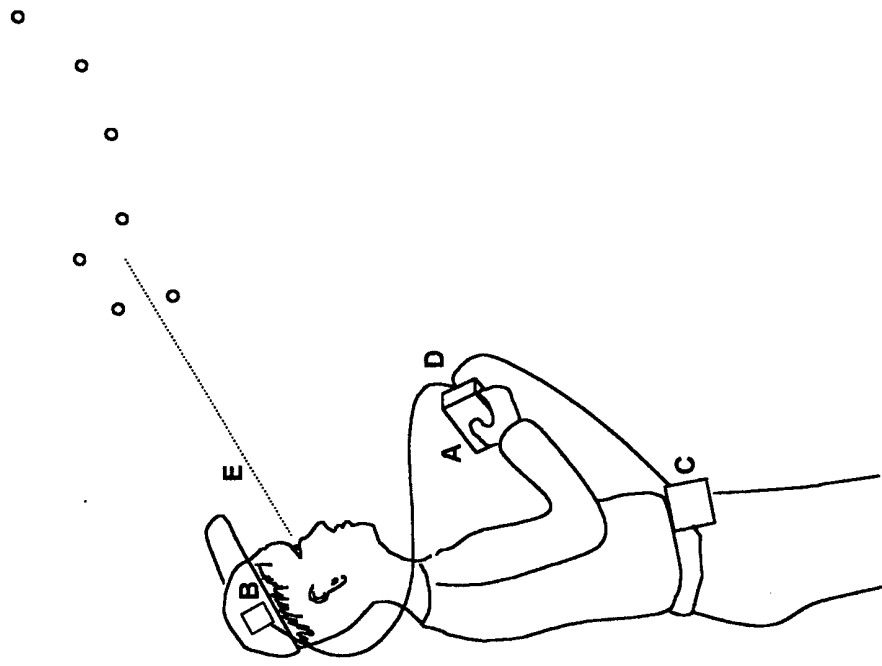


FIG. 3

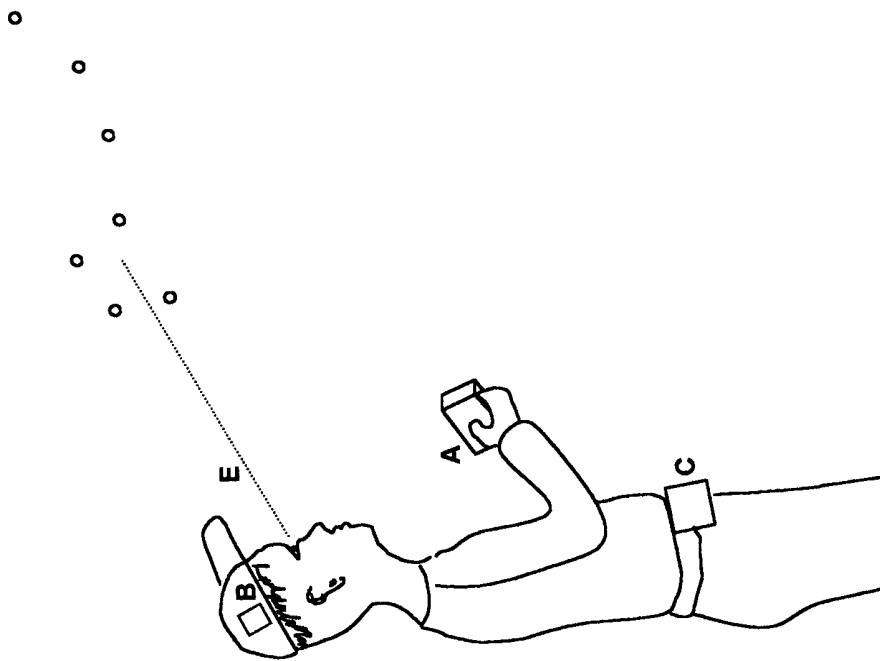


FIG. 4

Enter or recall or sense via gps time, date, and location
Self test and startup procedures, e.g. calibrate sensors
Select mode of use – seek object or identify objects gazed upon



Select object sought – voice or key/mouse/button input

Determine gaze from sensors

Determine gaze from sensors

Computer angular distance from gaze to sought object

Compute angular distance to objects in database

Output directions to object via sound, vibration, or display

Repeat until angular distance is small

Identify object by recorded voice and/or display

Identify nearest object by recorded voice and/or display

FIG. 5